

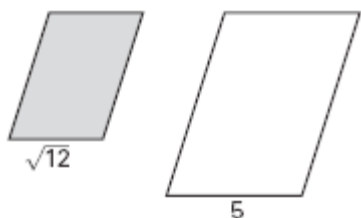
## Geometry 11.3 Assignment

### Fundamental Theorem of Similarity (pp 677–681)

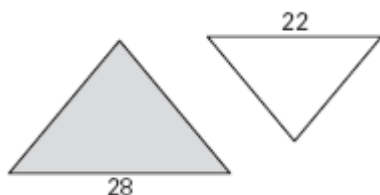
1. What is your name?

The polygons shown are similar. Find the ratio (shaded to unshaded) of their perimeters and of their areas.

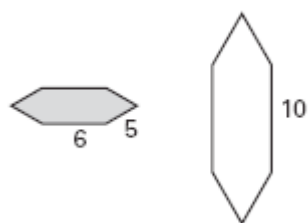
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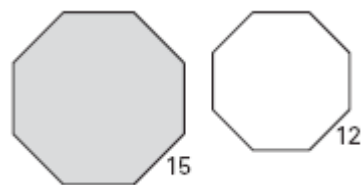
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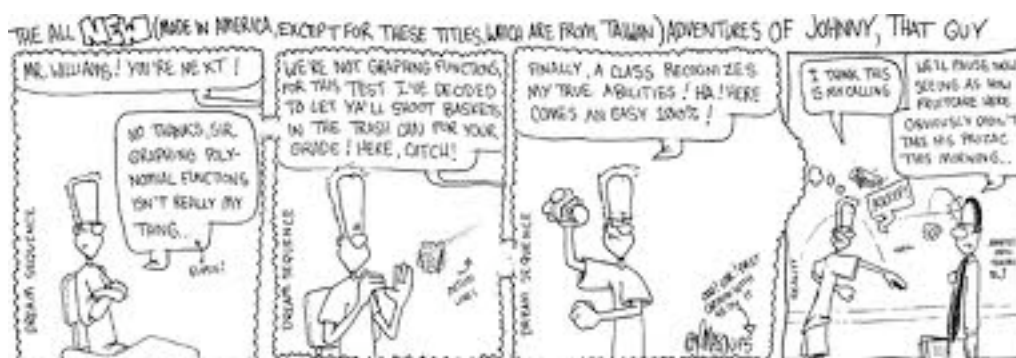
### Fundamental Theorem of Similarity (pp 677–681)

6. The perimeter of an equilateral triangle is 48 centimeters. A smaller equilateral triangle has a side length of 6 centimeters. What is the ratio of the areas of the larger triangle to the smaller triangle?

7. The ratio of the areas of two similar triangles is 84:40. What is the ratio of the lengths of corresponding sides?

8. A pentagon has an area of 128 square centimeters. A similar pentagon has an area of 180 square centimeters. What is the ratio of the perimeters of the smaller pentagon to the larger pentagon?

9. The dimensions of a rectangle are 8 centimeters by 12 centimeters. What are the dimensions of a similar rectangle with exactly double the area?



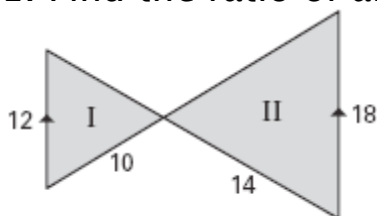
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10. Find the ratio of the areas of the triangles.



11. Find the ratio of area I to area II.



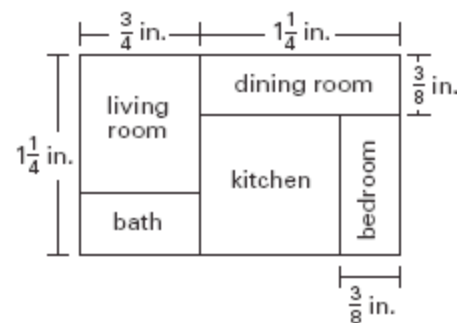
Buffalo once roamed the plains in large numbers.

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### Fundamental Theorem of Similarity (pp 677–681)

The floor plan has a scale of 1 inch to 18 feet.

12. What is the scale area of the kitchen?



13. What is the actual area?

14. What is the scale area of the bedroom?

15. What is the actual area?

